

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Amended) A An isolated protein
 - a) that has the ability to bind specifically to ~~the~~ an EDb-fibronectin domains domain;
 - b) that is expressed or activated specifically in an endothelial ~~eels~~ cell;
 - c) that is expressed or activated specifically in ~~the~~ a stromal ~~eels~~ cell of a tumor;
 - d) that is expressed or activated specifically in a tumor ~~eels~~ cell;
 - e) ~~whose~~ wherein binding of said protein to the EDb-fibronectin ~~domains~~ domain is inhibited by a polypeptide; and
 - f) that has an apparent molecular weight of 120-130 kDa for the light chain and 150-160 kDa for the heavy chain, determined by SDS-polyacrylamide gel electrophoresis.
 2. (Amended) A The isolated protein according to claim 1
 - a) that has the ability to bind specifically to the EDb-fibronectin ~~domains~~ domain, whereby the binding region is ~~characterized by at least one sequence that is selected from the group that comprises SEQ ID NOS: 1-3~~ comprises the sequence of SEQ ID NO:1;
 - b) that is expressed or activated specifically in an endothelial ~~eels~~ cell;
 - c) that is expressed or activated specifically in a stromal ~~eels~~ cell of a tumor;
 - d) that is expressed or activated specifically in a tumor ~~eels~~ cell;
 - e) ~~whose~~ wherein binding to the EDb-fibronectin ~~domains~~ domain is inhibited by a polypeptide that comprises a the sequence ~~that is selected from the group that comprises SEQ ID NOS: 1-3~~ of SEQ ID NO:1; and
 - f) that has an apparent molecular weight of 120-130 kDa for the light chain and 150-160 kDa for the heavy chain, determined by SDS-polyacrylamide gel electrophoresis.

3. (Amended) A The protein, according to claim 1,
a) that has the ability to bind specifically to the EDb-fibronectin ~~domains~~
domain and that comprises the $\alpha 2\beta 1$ chain of the integrin;
b) that is expressed or activated specifically in an endothelial ~~eells~~ cell;
c) that is expressed or activated specifically in a stromal ~~eells~~ cell of a
tumor;
d) that is expressed or activated specifically in a tumor ~~eells~~ cell;
e) ~~whose wherein~~ binding to the EDb-fibronectin ~~domains~~ domain is
inhibited by a polypeptide and that comprises the α chain of the integrin; and
f) that has an apparent molecular weight of 120-130 kDa for the light
chain and 150-160 kDa for the heavy chain, determined by SDS-polyacrylamide gel
electrophoresis.

4. (Amended) ~~Protein~~ The protein according to claim 1, ~~characterized in that~~
wherein the endothelial ~~eells~~ are cell is a proliferating endothelial eells cell.

5. (Amended) ~~Protein whose specific binding to the EDb-fibronectin domains~~ A
protein that mediates the adhesion of an endothelial ~~eells~~ cell, a tumor-stromal ~~eells~~ cell and a
tumor ~~eells~~ cell by specifically binding to the EDb-fibronectin domain.

6. (Amended) ~~Protein whose specific binding to the EDb-fibronectin domains~~ A
protein that mediates the adhesion of an endothelial ~~eells~~ cell, a tumor-stromal ~~eells~~ cell and a
tumor ~~eells~~ cell by specifically binding to the EDb-fibronectin domain, whereby ~~the~~ a binding
region is ~~characterized by at least one sequence that is selected from the group that comprises~~
SEQ ID NOS: 1-3 of said protein comprises the sequence of SEQ ID NO:1.

7. (Amended) ~~Protein~~ The protein according to claim 6, wherein the binding
region comprises the $\alpha 2\beta 1$ chain of the integrin.

8. (Amended) ~~Protein whose specific binding to the EDb-fibronectin domains~~ A
protein that induces the proliferation of an endothelial ~~eells~~ cell by specifically binding to the
EDb-fibronectin domain.

9. (Amended) ~~Protein whose specific binding to the EDb-fibronectin domains~~ A protein that induces the proliferation of an endothelial cells cell by specifically binding to the EDb-fibronectin domain, whereby ~~the a binding region is characterized by at least one sequence that is selected from the group that comprises SEQ ID NOS: 1-3 of said protein~~ comprises the sequence of SEQ ID NO:1.

10. (Amended) ~~Protein~~ The protein according to claim 9, wherein the binding region comprises the $\alpha 2\beta 1$ chain of the integrin.

11. (Amended) ~~Protein whose specific binding to the EDb-fibronectin domains~~ A protein that induces the proliferation, migration and differentiation of an endothelial cells cell in a collagen matrix by specifically binding to the EDb-fibronectin domain.

12. (Amended) ~~Protein whose specific binding to the EDb-fibronectin domains~~ A protein that induces the proliferation, migration and differentiation of an endothelial cells cell in a collagen matrix by specifically binding to the EDb-fibronectin domain, whereby ~~the a binding region is characterized by at least one sequence that is selected from the group that comprises SEQ ID NOS: 1-3 of said protein~~ comprises the sequence of SEQ ID NO:1.

13. (Amended) ~~Protein~~ The protein according to claim 12, wherein the binding region comprises the $\alpha 2\beta 1$ chain of the integrin.

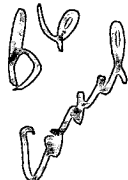
14. (Amended) ~~Protein~~ A protein that binds to the EDb-fibronectin domains domain and induces a specific signal transduction pathways pathway, whereby at least one gene is induced that codes for a protein that is selected from the group ~~that comprises~~ consisting of

- Focal adhesion kinase,
- CD6 ligand (ALCAM),
- the α chain of the vitronectin receptor,
- the integrated alpha 8 subunit, and
- a/the precursor(s) for follistatin-related protein.

15. (Amended) ~~Protein A~~ protein that binds to the EDb-fibronectin ~~domains~~ domain and induces a specific signal transduction ~~pathways~~ pathway, whereby at least one gene is induced that codes for a protein that is selected from the group ~~that comprises~~ consisting of

- Focal adhesion kinase,
- CD6 ligand (ALCAM),
- the α chain of the vitronectin receptor,
- the integrated alpha 8 subunit, and
- a/the precursor(s) for follistatin-related protein,

and whereby ~~the a binding region is characterized by at least one sequence that is selected from the group that comprises SEQ ID NOS: 1-3~~ of said protein comprises the sequence of SEQ ID NO:1.

 16. (Amended) ~~Protein~~ The protein according to claim 15, wherein the binding region comprises the $\alpha 2\beta 1$ chain of the integrin.

17-55. (withdrawn from consideration)